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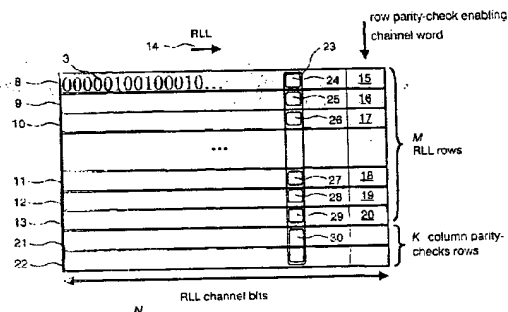
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(54) Title: **SIGNAL, STORAGE MEDIUM, METHOD AND DEVICE FOR ENCODING, METHOD AND DEVICE FOR DECODING**



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(57) Abstract: The invention relates to a signal comprising a runlength limited (RLL) encoded binary d,k channel bitstream 3, wherein parameter d defines a minimum number and parameter k defines a maximum number of zeroes between any two ones of said bitstream 3 or vice versa, comprising a number of sections of respectively N successive RLL channel bits, called RLL rows 8-13, 45, each RLL row 8-13, 45 representing a parity-check code-word, called row parity-check code-word, in which a so-called row-based parity-check constraint for said RLL row 8-13, 45 has been realized, characterized in that K sections of respectively N successive channel bits, called column parity-check rows 21, 22, 43, 44, 46, are located at predetermined positions of a group of M RLL rows 8-13, 45, K, N and M being integer values, said column parity-check rows 21, 22, 43, 44, 46 comprising a plurality of column parity-check enabling channel words 30, 42, 48, wherein each of said column parity-check enabling channel words 30, 42, 48 realizes a so-called column-based parity-check constraint for all so-called corresponding segments 24-29 of at least said M RLL rows 8-13, 45 of said group that correspond to a specific column parity-check enabling channel word 30, 42, 48, hereby constituting a column parity-check codeword. Furthermore, the invention relates to a storage medium comprising such a signal as well as a method and a device for encoding a stream of user data bits into such a signal as well as a method and a device for decoding such a signal.

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